AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

 (Previously presented) A modified viral particle comprising at least a partially delipidated viral particle, wherein the partially delipidated viral particle:

initiates a positive immune response in an animal or human;

comprises at least one exposed epitope not usually presented to an immune system of the animal or the human by a non-delipidated viral particle; and

wherein the partially delipidated viral particle is obtained by treating a lipidcontaining viral particle with an organic solvent that is not a detergent or a surfactant,

- 2. (Previously presented) The modified viral particle of claim 1, wherein the modified viral particle is immunodeficiency virus.
- 3-27. (Cancelled)
- 28. (Previously presented) The modified viral particle of claim 2, wherein the immunodeficiency virus is SIV or FIV.
- 29. (Previously presented) The modified viral particle of claim 2, wherein the immunodeficiency virus is HIV.
- (Previously presented) The modified viral particle of claim 29, wherein the HIV is HIV-1 or HIV-2.
- 31. (Previously presented) The modified viral particle of claim 1, wherein the at least one exposed epitope is a gag, p6 gag, gp66, gp41, p27, or env epitope.
- (Cancelled)

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 (Previously presented) The modified viral particle of claim 1, wherein the modified viral particle has a lower lipid content in a viral envelope as compared to the non-

delipidated particle.

34. (Previously presented) The modified viral particle of claim 1, wherein one or

more protein on, in, or near the surface of the partially delipidated viral particle is

conformationally changed as compared to one or more proteins on, in, or near the surface of

the non-delipidated viral particle.

35. (Previously presented) The modified viral particle of claim 1, wherein an

antigenic core of the modified viral particle remains intact as compared to the non-

delipidated viral particle.

36. (Previously presented) The modified viral particle of claim 1, wherein the

modified viral particle retains over 90% of major protein constituents compared to the non-

delipidated viral particle.

37. (Previously presented) The modified viral particle of claim 36, wherein the

major protein constituents of the modified viral particle comprise gag or env proteins.

38. (Previously presented) The modified viral particle of claim 1, wherein the

modified viral particle retains at least one immunoreactive protein.

39. (Previously presented) The modified viral particle of claim 38, wherein the at

least one immunoreactive protein is selected from the group consisting of p24, gp41 and

gp120.

40. (Previously presented) The modified viral particle of claim 39, wherein the

modified viral particle comprises at least one exposed patient specific antigen that was not

exposed in the non-delipidated viral particle.

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41. (Previously presented) The modified viral particle of claim 1, wherein the

modified viral particle is produced by exposing the lipid-containing viral particle to a

delipidation process.

42. (Previously presented) The modified viral particle of claim 41, wherein the

delipidation process comprises:

contacting the lipid-containing viral particle in a fluid with the organic solvent that is

not the detergent or the surfactant and is capable of extracting lipid from the lipid-

containing viral particle;

mixing the fluid and the organic solvent for a time sufficient to extract lipid from the

lipid-containing viral particle;

permitting organic and aqueous phases to separate; and,

collecting the aqueous phase containing the modified viral particle with reduced lipid

content wherein the modified viral particle with reduced lipid content is capable of

provoking a positive immune response when administered to the animal or the

human.

43. (Previously presented) The modified viral particle of claim 42, wherein the

delipidation process further comprises:

contacting the aqueous phase with a de-emulsifying agent capable of removing the

organic solvent; and,

separating the de-emulsifying agent and the removed organic solvent from the

contacted aqueous phase.

44. (Previously presented) The modified viral particle of claim 44, wherein the

organic solvent is an alcohol, an ether, an amine, a hydrocarbon, an ester, or a combination

thereof.

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- 45. (Previously presented) The modified viral particle of claim 44, wherein the ether is C4 to C8 ether and the alcohol is a C1 to C8 alcohol.
- 46. (Previously presented) The modified viral particle of claim 43, wherein the deemulsifying agent is an ether.
- (Previously presented) The modified viral particle of claim 1, further comprising a pharmaceutically acceptable carrier.
- 48. (Cancelled)
- 49. (Previously presented) The modified viral particle of claim 1, wherein the at least one exposed epitope is an envelope protein epitope.
- 50. (Previously presented) The modified viral particle of claim 1, wherein the modified viral particle has a lower lipid content in a viral envelope than the lipid content in an envelope of the non-delipidated viral particle.
- 51. (Previously presented) The modified viral particle of claim 1, wherein the partially delipidated viral particle has an infectivity reduced by no more than 2.5 log units as compared to the non-delipidated viral particle.
- 52. (Cancelled)
- 53. (Previously presented) A modified viral particle comprising at least a partially delipidated viral particle, wherein the partially delipidated viral particle:

initiates a positive immune response in an animal or a human;

comprises at least one exposed epitope not usually presented to an immune system of the animal or the human by a non-delipidated viral particle, wherein the modified viral particle comprises at least one immunoreactive protein selected from a group consisting of p24, gp41 and gp120; and

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is obtained by treating a lipid-containing viral particle with an organic solvent that is

not a detergent or a surfactant.

54. (Currently amended) A modified viral particle comprising at least a partially

delipidated viral particle, wherein the partially delipidated viral particle:

initiates a positive immune response in an animal or a human;

comprises an envelope, wherein the envelope comprises no extrinsic detergent or

surfactant molecules; and,

comprises at least one exposed epitope not usually presented to an immune system of

the animal or the human by a non-delipidated viral particle, wherein the modified

viral particle retains over 90% of major protein constituents compared to the non-

delipidated viral particle and the major protein constituents of the modified viral

particle comprise gag or env proteins;

wherein the partially delipidated viral particle is obtained by treating a lipid-

containing viral particle with an organic solvent that is not a detergent or a surfactant.

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